

TITLE OF THE INVENTION  
A SPARK PLUG FOR AN ENGINE FOR A COGENERATION SYSTEM  
ABSTRACT OF THE DISCLOSURE

In a side ground electrode type of spark plug, sizes of  
5 discharge members are optimized to reduce a useless portion in  
discharging to improve discharge wear resistance. A first discharge  
member mainly comprising Ir alloy is welded to the central electrode.  
A second discharge member comprising Ir metal circle plate is  
welded to the ground electrode, wherein a side surface of the first  
10 discharge member confronts a surface of the second discharge  
member to form a spark discharge gap  $G \geq 0.2 \text{ mm}$ ,  $D$  (a width of  
the first discharge member)  $\geq 1.6 \text{ mm}$ .  $|A - D| \leq (G + 0.5 \text{ mm})$ .  
 $A$  is a width of the second discharge member. Moreover,  $D \leq 5.0$   
mm. A maximum cross-sectional area of weld portion between the  
15 first discharge member and the central electrode  $\leq 8 \text{ mm}^2$ . This  
weld portion has distance  $L$  to the second discharge member.  $L \geq$   
 $G$ .

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